Translation

2nd Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the EC-Type Examination Certificate
BVS 05 ATEX E 092

Equipment: **Transponder type TID-tt-********

Manufacturer: **TECTUS Transponder Technology GmbH**

Address: **47445 Moers, Germany**

The transponder type TID-TP-******** may also be manufactured according to the documentation specified in the test report; then, it shall be designated as follows:

Intrinsically safe transponder type TID-tt-********

For the designation, the letters 'tt' and the asterisk shall be replaced by the following combinations of letters and numbers:

letters 'tt'

tt

TP = transponder for a frequency range of 120 to 140 kHz

HF = transponder for a frequency range of 13 to 14 MHz

UHF = transponder for a frequency range of 860 to 960 MHz

For the transponders TP, HF and UHF

Asterisks 1 to 4

CL20	Clear Disc	d = 20 mm
CL22	Clear Disc	d = 22 mm
CL30	Clear Disc	d = 30 mm
CL51	Clear Disc	d = 51 mm
EL20	Epoxy Disc	d = 20 mm
EL30	Epoxy Disc	d = 30 mm
EL50	Epoxy Disc	d = 50 mm
IS85	ISO Card	85.6 x 54 mm
LO120	Logitag	d = 12 mm
LO160	Logitag	d = 16 mm
PU30	PU Tag	d = 34 mm

DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Germany Phone +49 234/3696-105 Fax +49 234/3696-110 E-mail zs-exam@dekra.com
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PU50	PU Tag	d = 50 mm
PU70	PU Tag	70 x 100 mm
PU90	PU Tag	d = 90 mm
VO30	Volcano	d = 26 mm
WT20	World Tag	d = 20 mm
WT30	World Tag	d = 30 mm
WT50	World Tag	d = 50 mm

For the transponders TP and HF

Asterisks 1 to 4

GL13	Glass transponder l = 13.3 mm
GL22	Glass transponder l = 22 mm
GL34	Glass transponder l = 34 mm
CY13	type of the Glass transponder type GL13
CY22	type of the Glass transponder type GL22
CY34	type of the Glass transponder type GL34

For the transponders UHF

MTP148	Transponder

Asterisks 5 and 6

RW for Read Write

RO for Read Only

Asterisks 7 and 8

HF	high temperature variant only for *-PU30, *-PU50 and *-PU90

Description

The intrinsically safe transponders of type TID-tt-******** are used for the marking of equipment; they can be e.g. vulcanized into conveyor belts and thus serve the purpose of controlling the belt slot or the speed. The transponders are activated by an external magnetic field and then send a response signal.

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Parameters

1. Transponder type TID-TP-********

operating frequency	f	120 to 140 kHz
max. radiant power	P	125 mW

2. Transponder type TID-HF-********

operating frequency	f	13 to 14 MHz
max. radiant power	P	156 mW

3. Transponder type TID-UHF-********

operating frequency	f	860 to 960 MHz
max. radiant power	P	156 mW

4. ambient temperature range

4.1 for transponders type TID-TP-********, type TID-HF-******** and type TID-UHF-********
-45 °C ≤ Ta ≤ +60 °C

4.2 for transponder type TID-**-PU30**HT, type TID-**-PU50**HT and type TID-**-PU90**HT
for the temperature class T4
-45 °C ≤ Ta ≤ +110 °C
for the temperature class T3
-45 °C ≤ Ta ≤ +140 °C

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006	General requirements
EN 60079-11:2007	Intrinsic safety
IEC 61241-0:2004	Dust explosion protection – General requirements
IEC 61241-11:2005	Intrinsically safe apparatus

The marking of the equipment shall include the following:

II 2G Ex ia IIC T4 resp.
I M2 Ex ia I resp.
II 2D Ex iaD 21 T70°C

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Special conditions for safe use
None

Test and assessment report
BVS PP 05.2062 EG as of 14.08.08

DEKRA EXAM GmbH
Bochum, dated 14. August 2008

signed: Dr. Jockers
Certification body

signed: Dr. Eickhoff
Special services unit

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 14.08.08
BVS-Ha/Ar 20080176

DEKRA EXAM GmbH

Certification body

Special services unit

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